Students Information

Name	Class ID	Email
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Introduction

Lab Exercise-6 required our team to create our own CRUD API for managing customer data. We were instructed that a GUI was not needed for this exercise.
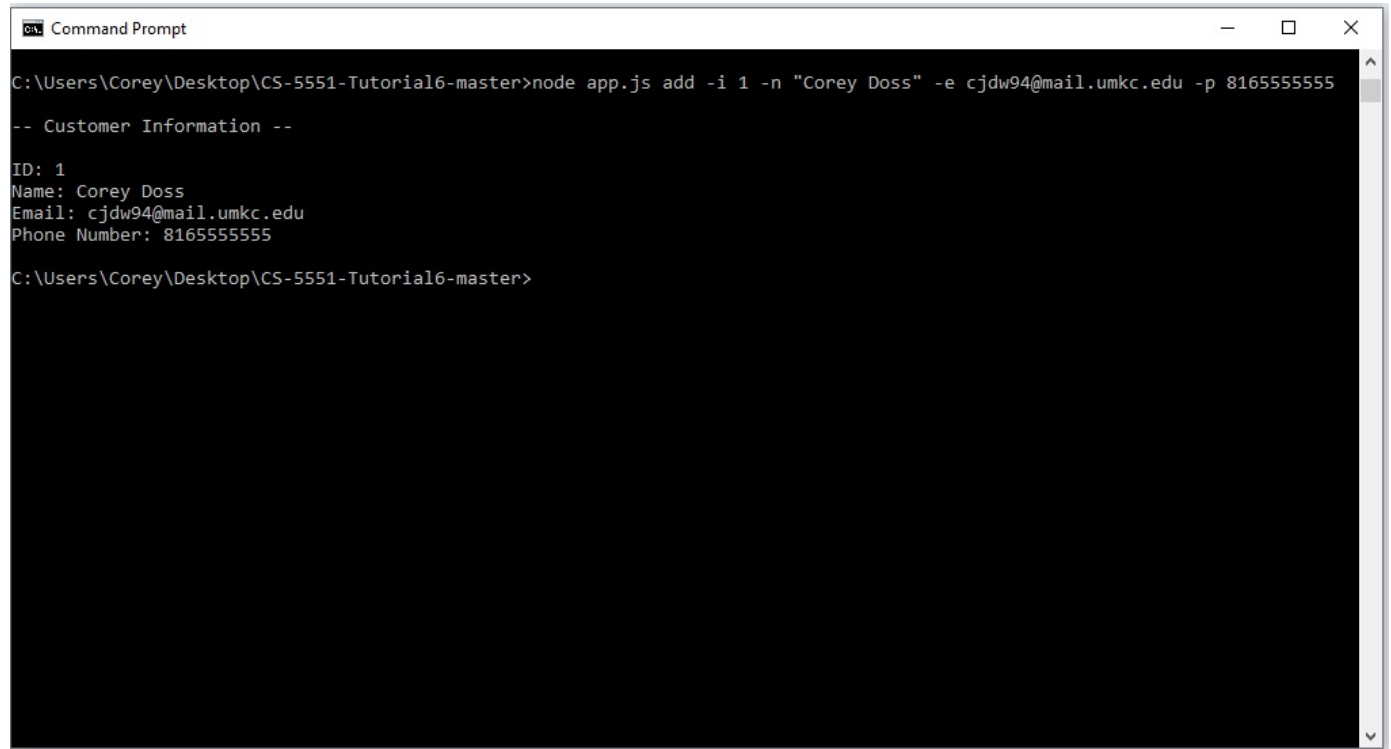
Objectives

- 1- Corey implemented customer addition, as well as base code.
- 2- Khalid and Corey worked together to implement read, list, and remove functionality.
- 3- Khalid was able to successfully implement an update function for the API.
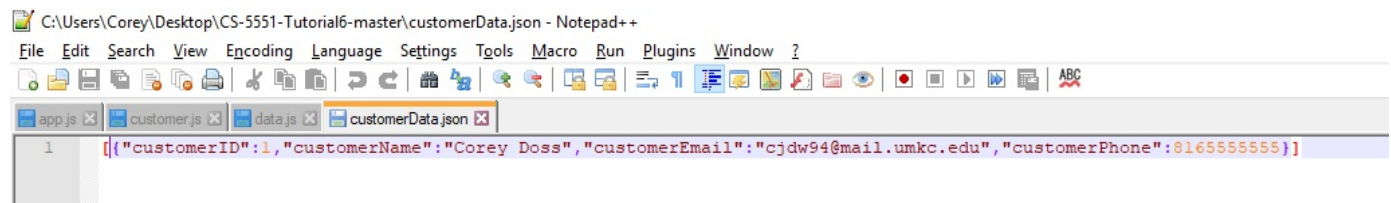
Design/Implementation

```
$ *** Created a new directory ***
$ npm init
$ npm install express fs yargs lodash --save
$ *** Created app.js ****
```

```
$ *** Created data.js ***
```
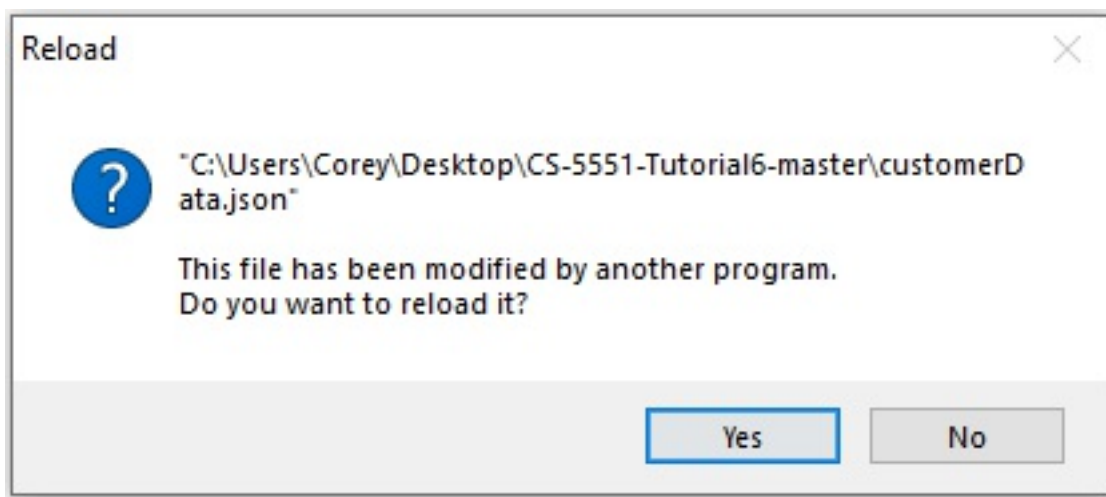
Customer Addition

Customer Update

Command Prompt

```
C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>node app.js add -i 1 -n "Corey Doss" -e cjdw94@mail.umkc.edu -p 8165555555

-- Customer Information --

ID: 1
Name: Corey Doss
Email: cjdw94@mail.umkc.edu
Phone Number: 8165555555

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>node app.js update -i 1 -n "Corey J Doss" -e cjdw94@mail.umkc.edu -p 8165555555
Data updated

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>
```


Reload

"C:\Users\Corey\Desktop\CS-5551-Tutorial6-master\customerData.json"

This file has been modified by another program.
Do you want to reload it?

Yes   No

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master\customerData.json - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

app.js | customer.js | data.js | customerData.json

```
1    [{"customerID":1,"customerName":"Corey J Doss","customerEmail":"cjdw94@mail.umkc.edu","customerPhone":8165555555}]
```

Read Specific Customer

```
Command Prompt                                                          —  ☐  ✕

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>node app.js read -i 2

-- Customer Information --

ID: 2
Name: Khalid Dhabbah
Email: kmdk2t@mail.umkc.edu
Phone Number: 8165555555

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>
```

Customer List

```
Command Prompt                                                          —  ☐  ✕

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>node app.js add -i 2 -n "Khalid Dhabbah" -e kmdk2t@mail.umkc.edu -p 8165555555

-- Customer Information --

ID: 2
Name: Khalid Dhabbah
Email: kmdk2t@mail.umkc.edu
Phone Number: 8165555555

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>node app.js list
Printing 2 info(s).

-- Customer Information --

ID: 1
Name: Corey J Doss
Email: cjdw94@mail.umkc.edu
Phone Number: 8165555555

-- Customer Information --

ID: 2
Name: Khalid Dhabbah
Email: kmdk2t@mail.umkc.edu
Phone Number: 8165555555

C:\Users\Corey\Desktop\CS-5551-Tutorial6-master>
```

Customer Removal

Conclusion

That concludes our implementation for Lab 6. We successfully met all

requirements, and we will continue to learn and grow with Express, as well as fs, yargs, and lodash.